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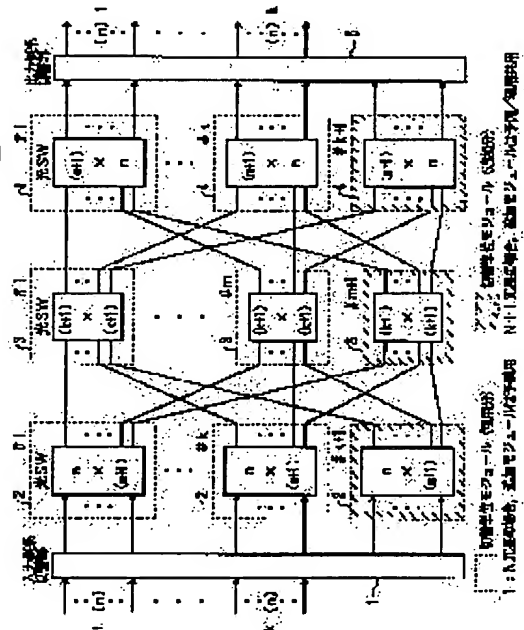
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(54) OPTICAL CROSS-CONNECTING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce the hardware quantity of redundant constitution of optical switches connected in three stages and to prevent a signal break in system switching.

SOLUTION: The optical cross-connecting device is equipped with a 1st stage including a switching module including $(k)n \times (m+1)$ optical switches where (n) units of light signals are inputted and standby $n \times (m+1)$ optical switches, a 3rd stage including including $(k) (m+1) \times n$ optical switches generating (n) units of outputs and one standby $(m+1) \times n$ optical switch, and a 2nd stage including $(m) (k+1) \times (k+1)$ optical switches provided in units of $(k+1)$ output signals from the 1st stage and generating $(k+1)$ units of outputs to the 3rd state and one $(k+1) \times (k+1)$ optical switch. Then the device is equipped with an input-side system switching part 1 which makes switching connections between nk input optical transmission lines and inputs to respective switching modules of the 1st stage and an output-side system switching part 5 which makes switching connections between the output of the 3rd stage and the nk output optical transmission lines.



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